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**Subject:** Questions about radiological objects - followup to 12/7/17 call  
**Attachments:** Pages from F RACR PCB HS\_TxtTblFig.pdf; Exhibit A - Declaration of Elbert Bowers Decl.pdf; Antique WWII Luminous Discs \_ RadioactiveThings.pdf

Thank you for the conference call December 7, 2017, regarding radiological objects. The information you provided was helpful. I am following up with a written version of questions. After we review your responses, let's have another discussion. I requested this item be on the Jan BCT meeting, but I discovered that is cancelled, so maybe we can schedule a call just for this topic separately instead in January.

1. What do you know already about the locations of sediment used for fill? What does the 1946 shoreline look like for all of HPNS? Please provide any relevant maps, aerial photos, or other relevant information.
2. What could be other reasons for the rad objects to be at the Shipyard? Sloppy handling practices?
3. How much do you already know about the extent of rad objects found? By Tetra Tech? By other consultants? Please provide list of all the rad objects and corresponding locations (maps would be best, but location within a site or a parcel might be enough) discovered at HPNS by Tetra Tech and other contractors. In a quick search for documentation about rad objects found at HPNS, we found none of the Tetra Tech EC reports provide information about the rad objects found, other than the number of objects in some cases. For example, for the original PCB Hot Spot removal action, the text notes: "Five hundred thirty-three cubic yards of soil, firebrick, and materials were placed in roll-off bins as LLRW. Further, 40 discrete gamma-emitting devices (point sources) and 19 pieces of radioactively contaminated debris were removed during soil screening. These point sources were transferred to the Army contractor in compliance with the DON LLRW Disposal Program and properly stored in Building 406 pending isotopic identification and disposal." Since these objects were evaluated for disposal purposes, it is likely that RASO and/or the Army Corps of Engineers contractor has information about the devices. We found one table listing rad objects (from the second PCB Hot Spot removal action), attached.
4. What is the typical range of activity levels for rad objects found at HPNS? Attached is a description of a Navy deck marker, found on [www.RadioactiveThings.com](http://www.RadioactiveThings.com). It claims to have an exposure rate of 200 mR/hr. Have objects similar to this been found at HPNS? If not, what would be the likelihood of finding such objects?
5. Can you overlay maps of the 1946 shoreline, locations where rad objects have been found, current parcel boundaries, and future land uses?
6. On a BCT Tour years ago, when the portal monitor alarmed, a rad device was found in the soil on the top. Doug showed the regulators on the tour. When did that happen? How often were radiological objects found in material in trucks due to the portal monitor?
7. Please note that the 7/2017 Greenaction NRC petition includes an allegation that a button was found by a Shaw contractor in backfill that had supposedly been cleared by Tetra Tech EC, Inc. (See pp. 24-26 of the attached Exhibit A, Declaration from former worker Bert Bowers). This declaration did not give any information about the location of the source or destination of this fill.

8. I understand that surface rad scanning been done in locations known to be disposal areas where rad objects might be found, e.g. Parcel B -IR 7/18, Parcel E-2, and Parcel D-1, and portions of Parcel E (e.g. IR-2). Scanning is planned for Parcel E. Were other areas already scanned? Or have plans for future scanning?

Thank you again.

Lily